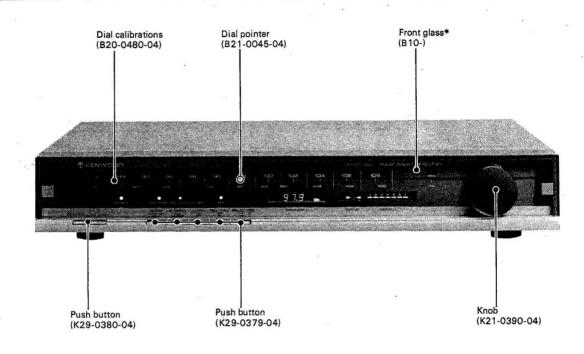
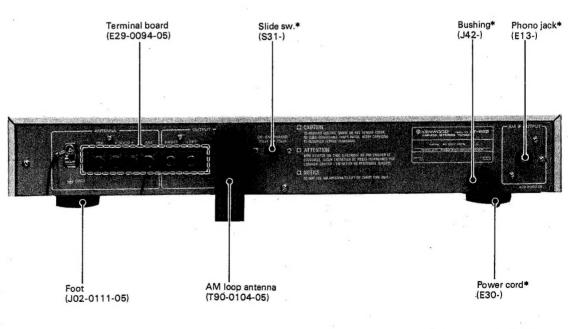


KT=900

AM-FM STEREO TUNER

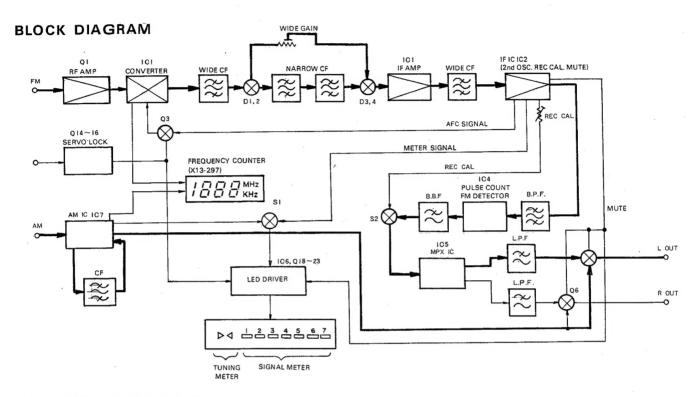




* Refer to Parts List (P10)



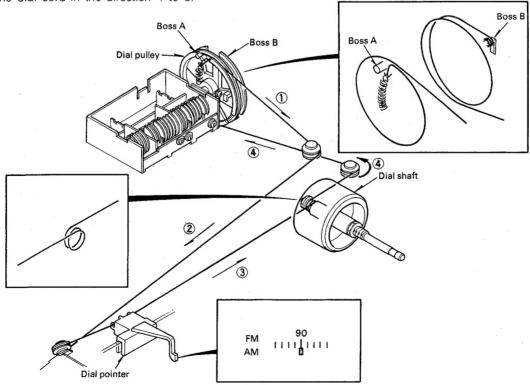
BLOCK DIAGRAM/DIAL CORD STRINGING



DIAL CORD STRINGING

- 1. Tie the end of the dial cord to the spring, hook the end of the spring to the boss A.
- 2. Set the dial pulley as illustrated.
- 3. Dress the dial cord in the direction 1 through 3.
- 4. Wind the dial cord two turns around the dial shaft starting from its upper side.
- 5. Dress the dial cord in the direction 4 to 5.

- 6. Wind the dial cord two turns around the dial pulley starting from its lower side.
- 7. Tie the end of the dial cord to the boss B.
- 8. Remove the dial spring from the boss A.
- 9. Receive a 90 MHz signal, and then mount the dial pointer at the 90 MHz position of the dial calibrations.

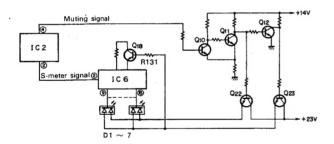




CIRCUIT DESCRIPTION

1. LED Signal Strength Meter (S-meter) and Tuning Indicator (T-indicator)

1-1 The S-meter signal output from IC2 is input to LED driver IC6, which drives 7 LEDs. IC6 has a hysteresis characteristic so that fast variation of the antenna input level will not result in flickering of the S-meter LEDs. Each LED chip used in the S-meter includes red and green LEDs, the cathodes of which are connected. When the antenna input level is low, the muting circuit turns Q22 ON to light the red LEDs. When the antenna input level becomes high enough, that is, when a broadcast is correctly tuned, the muting circuit turns Q23 ON to light the green LEDs. In other words, when the muting level is "H", the red LEDs are lit and when it is "L", the green LEDs are lit. When Q23 is ON, Q18 is also ON through R131, increasing the IC6 current and causing the green LEDs to glow more intensely. When replacing Q22 or Q23, a 500 mA Ic is required to drive the seven LEDs.



1-2 The tuning indicator consists of two triangular LEDs situated side-by-side (▷◄) and is located to the left of the S-meter. When a broadcast is tuned from the left (i.e., from lower frequencies), AFC voltage (negative with respect to the reference voltage at pin 11 of IC2) appears at pin 3 of IC2. This voltage is inverted by IC3 (1/2) and applied to Q19 to light the left LED(▷). When the broadcast is correctly tuned, the AFC voltage becomes equal to the reference voltage, so that the output of the inverting amplifier (IC3 (1/2)) is equal to that of the non-inverting amplifier (IC3 (2/2)). Both Q19 and Q20 are then equally driven and both LEDs glow with the same intensity.

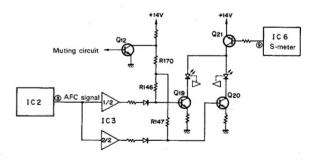
Further, when the receiving frequency is varied toward higher frequencies, the AFC voltage becomes positive

Further, when the receiving frequency is varied toward higher frequencies, the AFC voltage becomes positive with respect to the reference voltage and the input of the non-inverting amplifier increases. Then, Ω 20 is driven and only the right LED (\triangleleft) is lit.

When the antenna input level is too low (when no S-meter LED is lit), Q21 is OFF and the T-indicator cannot operate.

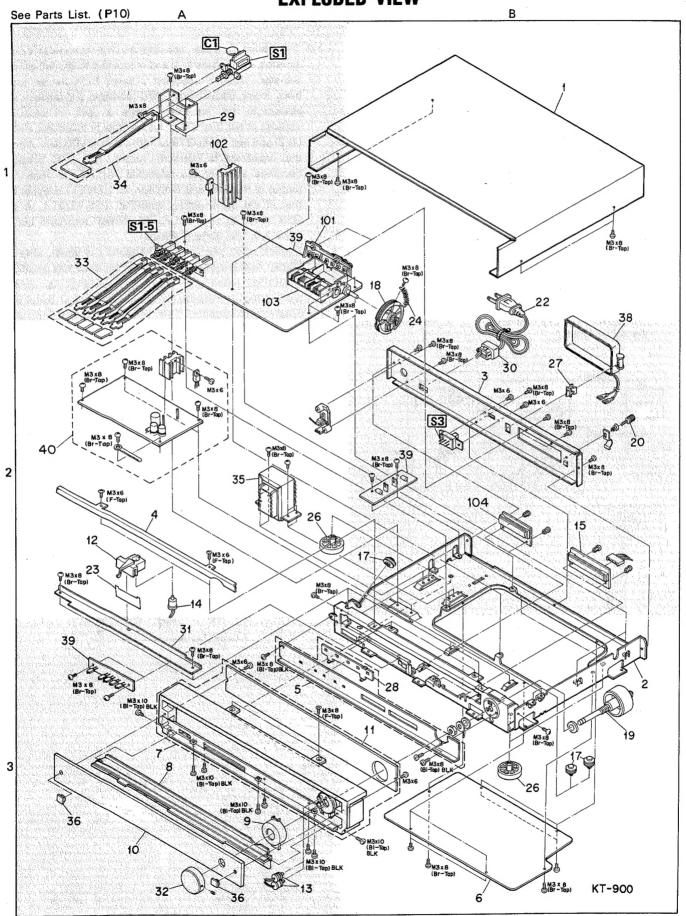
When the servo lock circuit is operating and the green LEDs are lit, the collector level of Q12 is "H" and this level is applied to Q19 and Q20 through R170, R146 and R147.

. Thus, both Q19 and Q20 are ON and both T-indicator LEDs glow intensely.





EXPLODED VIEW

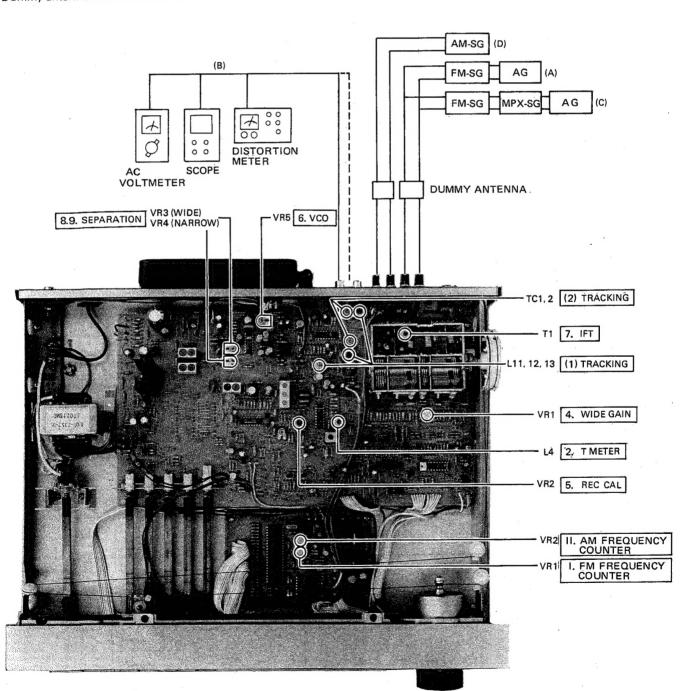


M3 × 6 : N30-3006-46 M3 × 8 (Br-Tap) : N87-3008-46 M3 × 8 : N30-3008-46 M3 × 8 (Bi-Tap) BLK : N89-3008-45 M3 × 6 (F-Tap): N88-3006-46 M3 × 10 (Bi-Tap) BLK: N89-3010-45



ADJUSTMENT/REGLAGES/ABGLEICH

TEST INSTRUMENT	APPAREILLAGE	PRÜFINSTRUMENTE	
Oscilloscope	. Oscilloscope	Oszilloskop	SCOPE
AM signal generator	. Générateur MA	. MW-Signalgenerator	AM-SG
FM signal generator	. Générateur MF	UKW-Signalgenerator	FM-SG
Audio generator	. Générateur audio fréquences	NF-Signalgenerator	AG
AC voltmeter	. Volltmètre CA	. Wechselspannungsmesser	
FM multiplex generator	Générateur multiplex stéréo	. UKW-Multiplexgenerator	FM-MPX
Frequency counter	Fréquencemètre	. Frequenzzähler	
DC voltmeter	Voltmètre CC	. Gleichspannungsmesser	
Distortion mêter	Distorsiomètre	. Klirrfaktormesser	
Dummy antenna	Antenna fictive	. Antennennachbildung	





ADJUSTMENT

NO.	ITEM	ITEM SYSTEM EQUI		TUNER (RECEIVER) SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
Fi	M SECTION	Set the MODE switch switch OFF unless of	n to AUTO/MUT, IF BANE therwise specified.	Switch WIDE, LOCK	switch ON and F	REC CAL	
1	T METER	(A)/(B)	95 MHz 1 kHz, 75 kHz (Dev)	95 MHz MODE: MONO LOCK: OFF	.—	*1	
2	T METER	(A)/(B)	95 MHz 1 kHz, 75 kHz (Dev) 60 dB (ANT input)	95 MHz LOCK: OFF	L4	Both LEDs glow with the same intensity.	
3	WIDE GAIN	(A)/(B)	95 MHz 0 (Dev)	95 MHz IF BAND: NARROW MODE: MONO	-	Set the FM-SG output level so that S-meter indicates 4.	
4	WIDE GAIN	(A)/(B)	ditto	95 MHz IF BAND: WIDE MODE: MONO	VR1	S-meter indicates 4.	
5	REC CAL	(A)/(B)		REC CAL: ON	VR2	0.38V	
6	vco	(A)/Connect a frequency counter to the junction of R56 and VR5 via an AC voltmeter.	95 MHz O dev 60 dB (ANT input)	95 MHz	VR5 76 kHz		
7	IFT	(C)/(B)	95 MHz 1 kHz ±68.25 kHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dB (ANT input)	95 MHz	T1 (Front end)	Minimum distortion	
8	SEPARATION (WIDE)	(C)/(B)	95 MHz 1 kHz ±68.25 kHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dB (ANT input)	95 MHz	VR3	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
9	SEPARATION (NARROW)	(C)/(B)	ditto	95 MHz IF BAND NARROW	VR4	ditto	
A	M SECTION	Keep the AM loop a	ntenna installed.				
(1)	RF ALIGNMENT (AM)	(D)/(B)	600 kHz 400 Hz, 30% mod	AM 600 kHz	L11, 12, 13	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	RF ALIGNMENT (AM)	RF ALIGNMENT (D)/(B)		AM 1400 kHz	TC1, 2	Maximum amplitude And symmetry of the oscilloscope display	
	Repeat alignmen	nts (1) and (2) several tim	es.				
F	REQUENCY CO	UNTER			•		
ı	FM	(A)	89.10 MHz O Dev 20 dB (ANT input)	89.1 MHz MODE: MONO	VR1	Fluorescent indicator	
11.	AM	(D)	1 440.0 kHz 400 Hz, 30% mod 30 dB (ANT input)	AM 1440 kHz	VR2	ditto	

^{*1.} Adjust the tuning knob so that the same amount of noise is observed at the top and bottom of the output waveform with a weak signal.







REGLAGES

							44
N°	ITEM	RACCORDE- MENTS DU SYSTEME	REGLAGE DE L'APPAREILLAGE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNE- MENT	ALIGNER POUR	FIG N°
S	ECTION MF	Placer le MODE dar sur OFF sauf indiqu	ns la position AUTO/MUT, e special le ment.	IF BAND sur WIDE, L	OCK sur ON et R	EC CAL	-
1	INDICATEUR A ZERO CENTRAL	(A)/(B)	95 MHz 1 kHz (Mod) 75 kHz (Dev)	95 MHz MODE: MONO LOCK: OFF	_	*1	
2	INDICATEUR A ZERO CENTRAL	(A)/(B)	95 MHz 1 kHz (Mod) 75 kHz (Dev) 60 dB (Entrée ANT)	95 MHz LOCK: OFF	L4	Les deux LEDs s'allu- ment avec la même intensité.	
3	GRAND GAIN	(A)/(B)	95 MHz 0 (Dev)	95 MHz IF BAND: NARROW MODE: MONO	NARROW — MF de facon qu		
4	GRAND GAIN	(A)/(B)	idem	95 MHz IF BAND: WIDE MODE: MONO	VR1	L'indicateur de champ amrque 4.	
5	REC CAL	(A)/(B)	_	REC CAL: ON	VR2	0.38V	
6	OSCILLATEUR CONTROLE Fréquence à la jonction de R56 et VR5 par un voltmètre CA.		OSCILLATEUR CONTROLE Fréquence à la jonction de R56 et VR5 par un State		VR5	76 kHz	
7	IFT	(C)/(B)	95 MHz 1 kHz ±68,25 kHz dév SELECTION: L ou R Signal pilote: ±6,75 kHz dév 60 dB (Entrée ANT)	95 MHz	T1 (Tête H.T.)	Distorsion minimale	
8	SEPARATION (WIDE)	(C)/(B)	95 MHz 1 kHz ±68,25 kHz dév SELECTION: L ou R Siignal pilote: ±6,75 kHz dév 60 dB (Entrée ANT)	95 MHz	VR3	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
9	SEPARATION (NARROW)	(C)/(B)	idem	95 MHz IF BAND: NARROW	VR4	idem	
S	ECTION MA	Laisser l'antenne	boucle MA installée.				
(1)	ALIGNEMENT H.T. (MA)	(D)/(B)	600 kHz 400 Hz, 30% mod	AM 600 kHz	L11, 12, 13	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(2)	ALIGNEMENT H.T. (MA)	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM 1400 kHz	TC1, 2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Repéter les aligne	ements (1) et (2) plus	eurs fois.				
F	REQUENCEMET	RE		-			
ı	MF	(A)	89,10 MHz 0 Dév 20 dB (Entrée ANT)	89,1 MHz MODE: MONO	VR1	Indicateur à fréquence	
11	МА	(D)	1440.0 kHz 400 Hz, 30% mod 30 dB (Entrée ANT)	AM 1 440 kHz	AM VR2		

^{*1.} Régler le bouton d'accord en sorte que la même quantité de bruit puisse être observée au sommet et au bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.

Bruit



ABGLEICH

NR.	GEGENSTAND	GEGENSTAND SYSTEM- ANSCHLÜSSE PRÜFEIN- RICHTUNG- EINSTELLUNG		TUNER (RECEIVER)- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FÜR	ABB NR.
U	KW-ABTEILL	JNG Auβers wer LOCK-Schalt	n anders angegeben, MOI ter auf ON und REC CAL-S	DE-Schalter auf AUT C)/MUT, IF BAN ellen.	D-Schalter auf WIDE,	
1	KANALMITTEN- ANZEIGER	(A)/(B)	95 MHz 1 kHz, 75 kHz Hub	95 MHz MODE: MONO LOCK: OFF	_	*1	
2	KANALMITTEN- ANZEIGER	(A)/(B)	95 MHz 1 kHz, 75 kHz Hub 60 dB (ANT: Eingang)	95 MHz LOCK: OFF	L4	Beide LEDs leuchten mit dersel ben Stärke auf.	
3	FELDSTÄRKE- INSTRUMENT (WEIT)	(A)/(B)	95 MHz O (Hub)	95 MHz IF BAND: NARROW MODE: MONO	_	Den Ausgangspegel des UKW-Signalgenerator so einstellen, daβ das Feldstärkeinstru- ment den Wert 4 anzeigt.	
4	FELDSTÄRKE- INSTRUMENT (WEIT)	(A)/(B)	dito	95 MHz IF BAND: WIDE MODE: MONO	VR1	Wert 4 anzeigt.	
5	REC CAL	(A)/(B)	_	REC CAL: ON	VR2	0.38V	
6	(A)/Einen Freque messer zur Verbin dung von 856 un		95 MHz O Hub 60 dB (ANT-Eingang)	95MHz	VR5	76 kHz	
7	IFT (C)/(B)		95 MHz 1 kHz ±68,25 kHz Hub Wähler: L oder R Pilotton: ±6,75 kHz Hub 60 dB (ANT-Eingang)	95 MHz	T1 (Frontende)	Minimaler Klirrfaktor	
8	STEREO KANAL TRENNUNG (WIDE)	(C)/(B)	95 MHz -1 kHz±68.25 kHz Hub Wähler: L oder R Pilotton: ±6,75 kHz Hub 60 dB (ANT-Eingang)	95 MHz	VR3	Minimales Übersprechen Eine Ausgleichrege lung kann notwendig sein, falls links-zu-rechts und rechts-zu-links Tren- nungen ungleich sind	
9	STEREO KANAL TRENNUNG (NARROW)	(C)/(B)	dito	95 MHz IF BAND: NARROW	VR4	dito	
٨	NW-ABTEILU	NG Die MW-Ra	hmenantenne angebracht	lassen.			
(1)	HF-	(D)/(B)	600 kHz 400 Hz, 30% mod	AM automatische Abstimmung 600 kHz	L11, 12, 13	Maximale Amplitude und Symmetrie des Oszill Oskopbildes.	
(2)	HF- ABGLEICH (MW)	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM automatische Abstimmung 1400 kHz	TC1, 2	Maximale Amplitude und Symmetrie des Oszill Oskopbildes.	
	Abstimmungen (1) und (2) mehrere Ma	ale wiederholen.				
F	REQUENZZÄHLE	R					_
ı	uĸw	(A)	89,10 MHz O Hub 20 dB ANT-Eingang	FM-MONO 89,1 MHz	VR1	Frequenz- indikator	
11	MW	(D)	1440 kHz 400 Hz, 30% Mod 30 dB ANT-Eingang	AM 1440,0 kHz	VR2	dito	

^{*1.} Den Abstimmknopf so einstellen, daβ an der oberen und unteren Grenze der Ausgangswellen form bei schwachem Signal dasselbe Geräusch auftritt.



BEMERKUNG

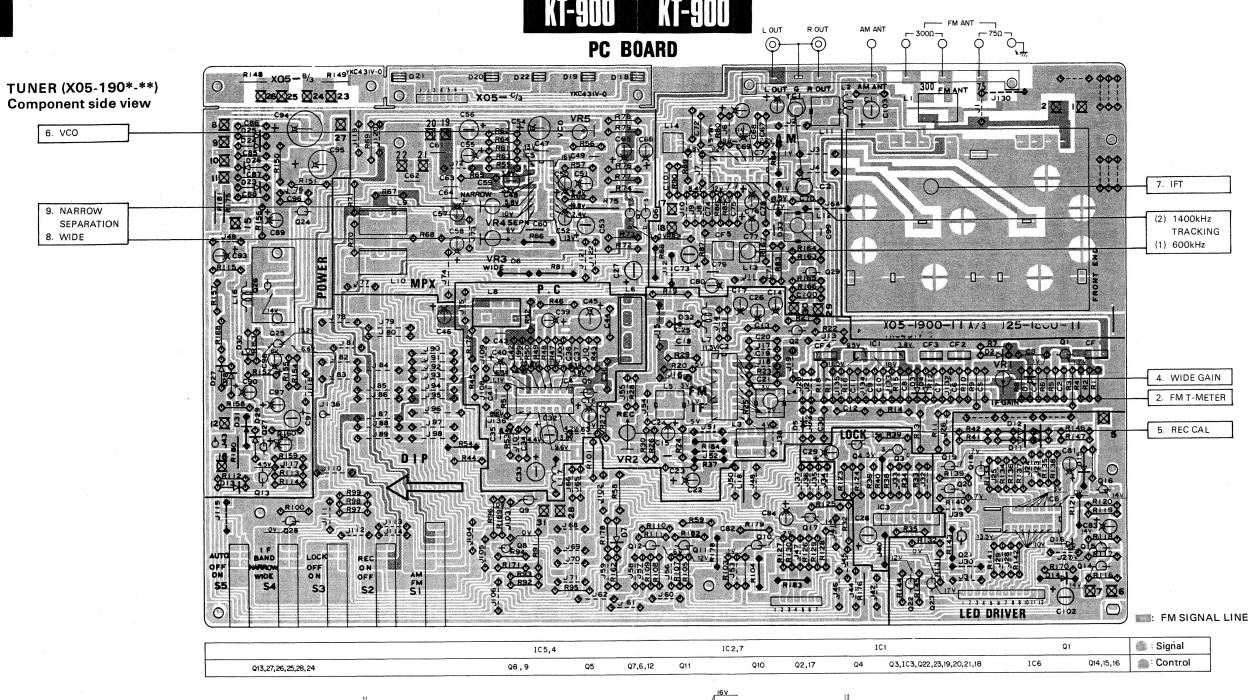
Nach der Einstellung, sich vergewissern, daß UKW Empfang unter 87.5 MHz oder über 108.5 MHz nicht möglich ist.

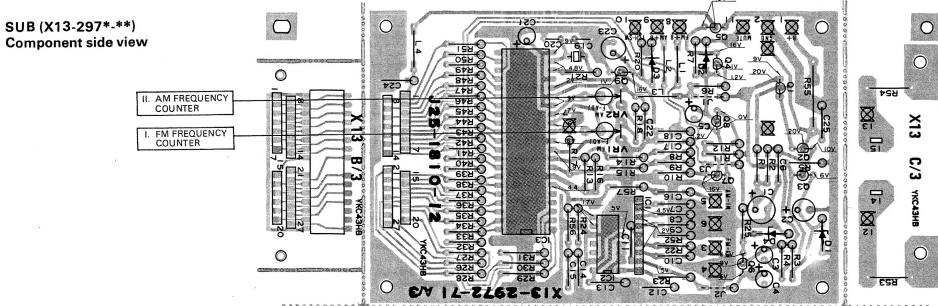
Falls die UKW Station in diesem Bereich empfangen werden kann, wie folgt nachregeln.

- UKW-Meßsender auf 108 MHz einstellen, 1 KHz (Mod) und 75 KHz (Dev) und an die antennenbuchse anschließen.
- 2. Den Astimmanzeiger des Tuners auf 108 MHz einstellen.
- TCO so einstellen, daß der Abstim mzähler den Mittelpunkt anzeigt.
- zeigt.
 4. TCR1, TCR2 und TC4 so einstellen, daß der Signalzähler den Höchstwert anzeigt.

7

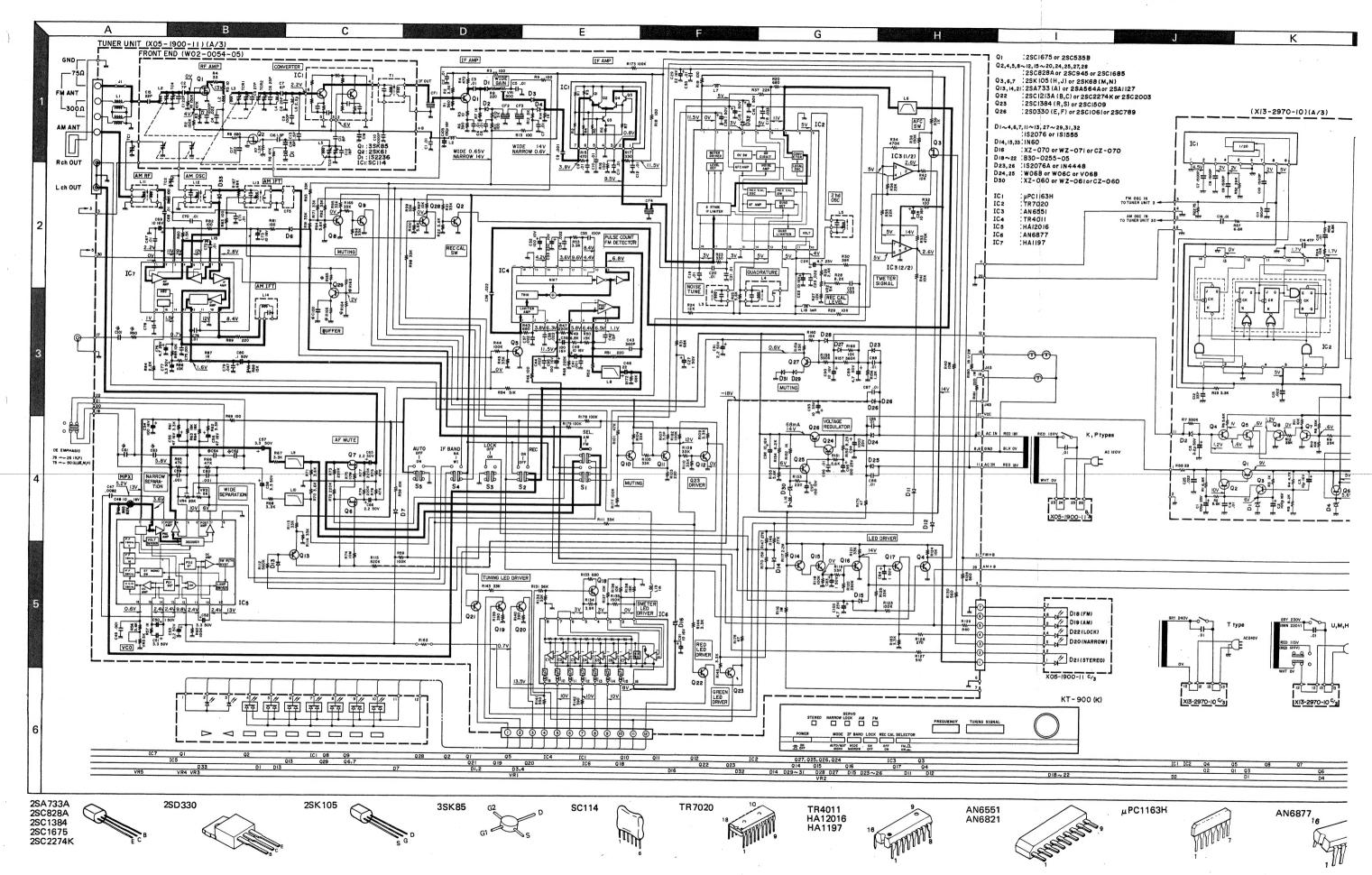




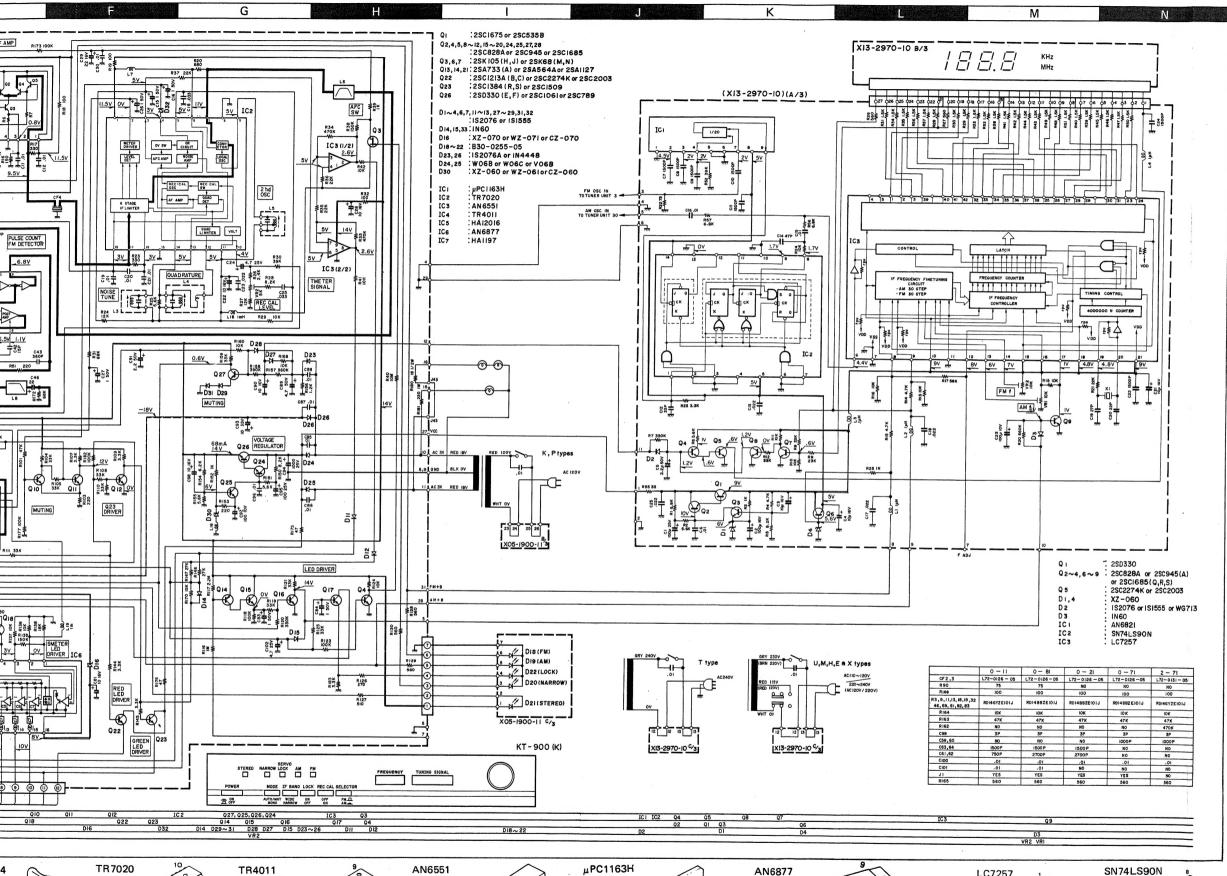


Refer to the schematic diagram for the values of resistors and capacitors.











SPECIFICATIONS

or zon forthold		
FM TUNER SECTION		
Usable sensitivity	10.8 dBf (1.5	9 μV)
50 dB Quieting Sensitivity		
Mono	16.4 dBf (3.6	6 μV)
Stereo	37.3 dBf (40	μV)
Signal to Noise Ratio		
Mono	88 dB	
Stereo	83 dB	
Total Harmonic Distortion	WIDE	NARROW
Mono 100 Hz	0.03%	0.04%
1,000 Hz		0.15%
6,000 Hz	0.05%	0.4%
15,000 Hz		0.07%
50 ~ 10,000 Hz		0.4%
Stereo 100 Hz	0.05%	0.3%
1,000 Hz	0.04%	0.3%
6,000 Hz		0.3%
15,000 Hz		1.0%
50 ~ 10,000 Hz		0.6%
Capture Ratio	1.0 dB	2.0 dB
Alternate Channel		
Selectivity	45 dB	65 dB (300 kHz)
Stereo Separation		
1,000 Hz		47 dB
50 ~ 10,000 Hz		35 dB
15,000 Hz		
Frequency Response		000 Hz + 0.2 dB,
5	0.8 dB	
Spurious Response Ratio		
Image Response Ratio		
IF Response Ratio		
AM Suppression Ratio		
Sub Carrier Product Ratio		
Antenna Impedance	. 300 ohms ba	lanced and 75 ohms
FM F	unbalanced	
FM Frequency Range	88 MHz to 10	8 MHz
Output Level (1,000 Hz 100% Mod.)	0.751//1.01-	t
(1,000 Hz 100% MIBB.)	U./5V/1.8 KO	nms
AM TUNER SECTION		
Usable Sensitivity	. 13 µV	
Signal to Noise Ratio		
Total Harmonic Distortion	. 0.4%	
Image Rejection	45 dB	
Selectivity	. 58 dB	
Output Level		
(400 Hz 30% Mod.)	. 0.15V/2 kohr	ns
GENERAL		
Power Requirements		
	Canada Mode	
)-120/220-240V
Bower Consumption	switchable	
Power Consumption		1004)
Dimensions	0.25A (UL and	17.5/16//\
Cantonatoria		3-1/16")
*	D: 390 mm (
Weight (Net)	5.1 kg/11.2 lk	

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

. 5.1 kg (11.2 lb)

Weight (Net) ..

venvood poursuit une politique de progrés constants en ce qui concerne li léveloppement. Pour cette raison, les spécifications sont sujettes à modification ans préavis.

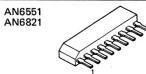
Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.





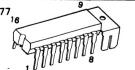


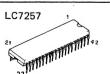


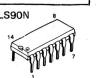












Ref. 参照

C75 C76 C71 C78

CE1 CE3 CE5 CE9

C91 C93 C94

c96

C98 C99 C100,

C102

C103

C104

CF1 CF1 -CF1 -

CF2 , CF2 , CF4 CF5 L1

L2 L3 L4 L5 L6

L7 L8 L9

L13

L14

L16 .

R3 R9 R11

R13

R32 R40 R40 R69

PARTS LIST

PARTS LIST

INSTRUCTION FOR PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
参照番号	* 4 * 9	据品名》规格	備考
			//
_18 1'A	A01-0608-12	METALLIC CABINET	
19 2A	A20-1979-11	FRONT PANEL ASSY	* K-
19 ZA	A2C-1979-1	FRONT PANEL ASSY	PM
19° 24	A2C-1979- '	FRONT PANEL ASSY	SU
19 2A	A20-1979-11	FRONT PANEL ASSY	XW
R221	R43-1333-15	FL-PROOF RD330 J 2H	•
R222	R43-1368-15	FL-PROOF RD680 J 2H	٠
VR1 .2	R12-3301-05	TRIMMING POT. 20K(8)	
VR3 .4	R19-4305-05	POTENTIOMETER (OUTPUT)	
VR5 .6	R12-2302-05	TRIMMING POT. 5K(B)	

- ① Exploded view drawing No.
- 2 Position in exploded view.
- 3 Symbol of new parts.
- Area to which parts are shipped. Example: A20-1979-11 is the part No. of FRONT PANEL ASSY for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.

 § Reference No. in schematic diagram.
- 6 Abbreviation of "Flame-proof carbon film resistor" All capacitors and resistors are listed using abbreviations. Abbreviations. * Abbreviations of capacitors (Parts No. with initial letter "C").
- ELECTRO. . Electrolytic capacitor Low leak electrolytic capacitor LL-ELEC Non-pole electrolytic capacitor NP-ELEC MICA . Mica capacitor Polystyrene capacitor POLYSTY MYLAR Mylar capacitor CERAMIC Ceramic capacitor TANTAL Tantalum capacitor Metallized film capacitor MP. Metallized paper capacitor Oil capacitor OIL..
- The unit "UF" is used in lieu of " μ F" * Abbreviations of resistors (Parts No. with initial letters "R").

Apple viations of te	010(010 (1 0110 110. 11	Title Intition Total
RC	Carbon composition	n resistor
RD	Carbon film resisto	r
FL-PROOF RD	Flame-proof carbon	ı film resistor
RW	Wire wound power	resistor
FL-PROOF RS	Flame-proof metal	oxide film resistor
RN	Metal film resistor	
FUSE-RESIST	Resistor with fuse	function
	Rated wattage	
2E	Rated wattage	1/4W
	Rated wattage	
3A	Rated wattage	1W
3D	Rated wattage	2W
3F	Rated wattage	3W
3G	Rated wattage	4W
ე⊔	Rated Wattage	5\//

- All resistor values are indicated with the unit (Ω) omitted. * Abbreviations common to capacitors and resistors.
- ±0.25pF (Used for capacitors only) ±0.5pF (Used for capacitors only) ±1% ±2% ±5% ±10% ±20% +80%, -20%(Used for capacitors only)

+100%, -0%(Used for capacitors only) Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

1	CODE	s in X05-190
	Κ:	X05-1900-11
	U:	X05-1900-81
	M:	X05-1900-21
	E :	X05-1902-71
	X :	X05-1900-71

CODEs in X13-297 K: X13-2970-10

E :	X13-29/2-/1

Ref. No.	Parts No.	Description	Re- marks
参照番号	部品番号	部品名/規格	備考
кт	-900 (UNIT)		
1 1B 2 3B 3 2B 4 2A 5 3A	A01-0391-02 - - - - A30-0185-03	METALLIC CABINET MAIN CHASSIS REAR PANEL DIAL BACK BOARD (A) DIAL BACK BOARD (B) ASSY	*
6 3B 7 3A 8 3A 9 3A	E01-0177-02	BOTTOM PLATE PANEL ESCUTCHEON ASSY PANEL ESCUTCHEON ESCUTCHEON (TUNING)	•
	B41-0229-04 B42-0473-24 B42-0473-24 B42-0473-24 B42-0473-24	CAUTION LABEL LABEL LABEL LABEL LABEL LABEL	K PU Kh UE XT
:	B42-0473-24 B46-0055-30 B46-0060-00 B46-0061-30 B46-0062-30	LABEL WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	E P T K UE
:	B46-0063-13 B46-0063-13 B46-0064-20 B50-3234-00 B50-3234-00	WARRANTY CARD MILITARY WARRANTY CARD MILITARY WARRANTY CARD INSTRUCTION MANUAL INSTRUCTION MANUAL	UH X * K PU
	B50-3234-00 B50-3234-00 B50-3234-00 B50-3235-00 B50-3235-00	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL	MH VE X *P MX
	B50-3236-00 B50-3237-00 B50-3238-00 B59-0018-00 B59-0018-00	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION PRINT INSTRUCTION PRINT	*M *E UL UE
10 3A 10 3A 10 3A 10 3A 10 3A	B10-0282-04 B10-0282-04 B10-0282-04 B10-0282-04 B10-0283-04	FRONT GLASS FRONT GLASS FRONT GLASS FRONT GLASS FRONT GLASS	*K MH UE XE *T
11 3A 12 2A 13 3A 14 2A 15 2B	B20-0480-04 B21-0045-04 B30-0259-05 B30-0279-05 B38-0022-05	DIAL CALIBRATION DIAL POINTER LAMP X2 8v,15A LAMP 8v,05A DISPLAY ASSY	
C1 1A C1 1A C1 1A C1 1A C1 1A	C91-0023-05 C91-0023-05 C91-0023-05 C91-0079-05 C91-0079-05	CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC125V CERAMIC 0.01UF AC125V	UM HX UE KP TE
16A 2B 16B 2B 16B 2B 16B 2B 17 28,3A	E04-0004-05 E13-0116-05 E13-0116-05 E13-0116-05 D15-0174-05	RECEPTACLE PHONO JACK PHONO JACK PHONO JACK PULLEY ASSY	E KP UH UE
18 1B 19 3B	D15-0176-03 D20-0157-03	PULLEY DIAL SHAFT ASSY	
20 1B 22 26	E30-0505-05 E21-0012-05 E30-0181-05	AUDIO CORD TERMINAL POWER CORD	≰ KP

Re	f. No.	Parts No.	Description	Re-	Ref. No.	Parts No.	Description	Re-
参	照番号	部品番号	部品名/規格	marks	参照番号	部品番号	部品名/規格	marks 備考
22	2 B 2 B	E30-0459-05	POWER CORD POWER CORD	E	38 2B	т90-0104-05	ANTENNA AM LOOP	
22	2 B	E30-0545-05	POWER CORD	UE	39 1A	x05+1900-11	TUNER PCB ASSY	*K
22	28	E30-0545-05	POWER CORD	H	39 1A	x05-1900-11	TUNER PCB ASSY	P
22	2 B	E30-0587-05	POWER CORD	T	39 1A	x05-1900-21	TUNER PCB ASSY	# M
					39 1A	x05-1900-71	TUNER PCB ASSY	* X
22	28	E30-0649-05	POWER CORD	X	39 1A	x05-1900-81	TUNER PCB ASSY	*U
23	2 A	_	SLIDER	1 1	39 1A	x05-1900-81	TUNER PCB ASSY	н
•	•			1 1	39 1A	x05-1900-81	TUNER PCB ASSY	UE
24	18	G01-0368-04	COILED SPRING		39 1A	x05-1902-71	TUNER PCB ASSY	*T
				1 1	39 1A	x05-1902-71	TUNER PCB ASSY	E
				1 . 1	40 ZA	x13-2970-10	SUB PCB ASSY	KP
-		H01-3213-04	CARTON BOX	*1		2072 74	5.15 5.55 A.S.S.V	Um
-		H01-3214-04	I CARTON BOX I CARTON BOX	***	40 2A	x13-2972-71	SUB PCB ASSY	нх
-		H01-3214-04	CARTON BOX	UE	40 2A 40 2A	x13-2972-71 x13-2972-71	SUB PCB ASSY	UE
-		H01-3214-04	CARTON BOX	X	40 ZA	x13-2972-71	SUB PCB ASSY	XT
		, 56,14				NER (X05-19		
-		H01-3216-04	CARTON BOX	* E				
-		H01-3258-04	CARTON BOX	* P	018 -22	B30-0255-05	LAMP (LED)	
-		H10-1559-03	CARTON BOX POLYSTYRENE FIXTURE	: `	c1 -7	C91-0083-05	CERAMIC 0.01UF N	
		H20-0453-04	COVER	-	C8	c52-1710-26	CERAMIC 0.001UF K	
		1120 0425 04	201211		C9 -12	C91-0083-05	CERAMIC 0.01UF N	
-		H25-0078-04	BAG		C13	C91-0085-05	CERAMIC 0.022UF N	
					C14	C25-1210-67	ELECTRO 10UF 16W	<i>'</i>
26	2A,3B	J02-0111-05	FOOT X4	*				
27	2 B	J19-0564-05	HOLDER	1 1	C15 ,16	c25-1710-57	LL-ELEC TUF 50W	
3.5	3 B		HOLDER		C17	c25-1747-47	LL-ELEC 0.47UF 50W	'
50	1 A 2 B	J42-0083-05	MOUNTING HARDWARE	KP	C18	C46-1733-35	MYLAR 0.033UF J	
v	20	142-0003-03	BUSHING	"	C19 -21	C91-0083-05	CERAMIC 0.01UF N ELECTRO 10UF 16WN	,
30	28	J42-0083-05	BUSHING	UM	1000	(2)-1210-01	LEEGING FOOT	
30	28	J42-0083-05	BUSHING	Н	C23	C91-0085-05	CERAMIC 0.022UF N	
30	2 B	J42-0083-05	BUSHING	UE	C24	C24-1447-57	ELECTRO 4.7UF 25W	
30	28	J42-0083-05	BUSHING	TE	C25	c46-1733-35	MYLAR 0.033UF J	1
30	28	J42-0085-05	BUSHING	X	C26 ,27	c25-1710-57	LL-ELEC TUF SOWY	
				1 1	C 2 8	c25-1210-67	ELECTRO 10UF 16W	
31	3 A	-	RAIL	1	C29	62/ 1222-67	ELECTRO 22UF 16W	,
32	3 A	K21-0390-04	KNOB (TUNING)		C30	C24-1222-67	CERAMIC 0.01UF N	
33	2 A	K29-0379-04	KNOB (SELECTOR)		C32	c24-1010-79	ELECTRO 100UF 10W	, .
34	1 A	K29-0380-04	KNOB (POWER)		C33	c24-1022-71	ELECTRO 220UF 10W	
	•				C34	C91-0457-05	CERAMIC 0.022UF N	
35	2 A	L01-2151-05	POWER TRANSFORMER	* K				}
35	2 A	L01-2151-05	POWER TRANSFORMER	P	C35	C58-1710-15	CERAMIC 100PF J	
35	2A .	L01-2152-05	POWER TRANSFORMER	*T	C36 -38 C39	C91-0085-05	CERAMIC 0.022UF N	,
35	2 A	L01-2154-05 L01-2155-05	POWER TRANSFORMER	* E	C40	c25-1210-77	LL-ELEC 100UF 16WN ELECTRO 10UF 16WN	
35	2 A	F01-5133-03	POWER TRANSFORMER	*U	C41	C46-1710-25	MYLAR 0.001UF J	XE
35	2 A	L01-2155-05	POWER TRANSFORMER	мн	1			"
35	2 A	L01-2155-05	POWER TRANSFORMER	UE	C42	c71-1715-06		
35	2 A	L01-2155-05	POWER TRANSFORMER	X	C43	C48-1736-15	POLYSTY 360PF J	
					C44	c91-0085-05	CERAMIC 0.022UF N	
36	3 A	N14-0128-04	NUT X2		C45	c25-1210-77	LL-ELEC 100UF 16W	
c 4		640-1022-05	DUCH CHITCH],,1	C46	c24-1222-67	ELECTRO 22UF 16W	'
51 51		\$40-1022-05 \$40-1022-05	PUSH SWITCH PUSH SWITCH	HX	C47	C46-1782-25	MYLAR 0.0082UF J	
31		\$40-1022-05	PUSH SWITCH	ÜE	C48	C26-1210-67	NP-ELEC 10UF 16W	,
1		\$40-1024-05	PUSH SWITCH	KP	C49	C48-1710-25	POLYSTY 1000PF J	
1		540-1025-05	PUSH SWITCH	TE	C50	c25-1710-57	LL-ELEC TUF . SOWY	<i>i</i>
					C51 ,52	c25-1433-57	LL-ELEC 3.3UF 25W	/
2		s31-2053-05	SLIDE SWITCH	UM				.
2		s31-2053-05	SLIDE SWITCH	H	C53	c25-1722-57	LL-ELEC 2.2UF 50W	
2		\$31-2053-05	SLIDE SWITCH	UE	C54	C25-121C-77	LL-ELEC 100UF 16W	
2		\$31-2053-05	SLIDE SWITCH	XE	C55 ,56 C57 ,58	c24-1247-61 c24-1733-57	ELECTRO 47UF 16W	
3		s31-2007-05	SLIDE SWITCH	KP	C59 ,60	C46-1710-25	MYLAR 0.001UF J	X E
7		s31-2007-05	SLIDE SWITCH	บท	1	10-1110-23		1 ~ .
53 53		\$31-2007-05	SLIDE SWITCH	H	C61 ,62	C46-1727-25	MYLAR 0.0027UF J	UM
3		s31-2007-05	SLIDE SWITCH	ÜE	C61 ,62	C48-1775-15	POLYSTY 750PF J	K
•				التتا	C63 .64	C46-1715-25	MYLAR 0.0015UF J	kU
		T90-0202-05	ANTENNA FM		CE3 ,64	C46-1715-25	MYLAR 0.0015UF J	M
-		140-0505-02	ANTENNA FM	1 1	463 ,04	1 640-1/15-25	1 10 CTURE 0.001501 J	





PARTS LIST

PARTS LIST

	Re	f. No.	Parts No.	Description	Re- marks	Γ	Ref.	No.	Parts No.	1	Description		Re- marks
- 1	参	照番号	部品番号	部品名/規格	備考		参照	番号	部品番号	部 品	品 名 / 規	格	備考
	22	2 B 2 B	E30-0459-05 E30-0545-05	POWER CORD POWER CORD	E UM		38	2 B	190-0104-05	ANTENNA	AM LO	OP	
	22	2 B	E30-0545-05	POWER CORD	UE			1 A	x05-1900-11	TUNER PO			*K
1	22	2 B	E30-0545-05	POWER CORD POWER CORD	H			1A	x05-1900-11	TUNER PO			P +M
1	22	2 B	E30-0307-03	POWER LORD	1 ' 1			1 A 1 A	x05-1900-21 x05-1900-71	TUNER PO			*X
1	22	2 B	E30-0649-05	POWER CORD	x			1A	x05-1900-81	TUNER PO			***
1	23	SW	-	SLIDER			-	1 A 1 A	x05-1900-81 x05-1900-81	TUNER PO			H
	24	18	G01-0368-04	COILED SPRING	1			1 A	x05-1902-71	TUNER PO			*T
-	•						-	1 A 2 A	x05-1902-71 x13-2970-10	TUNER PO			E KP
- 1	_		H01-3213-04	CARTON BOX	*1	- 1							
- 1	-		H01-3214-04	CARTON BOX	*U			2 A	x13-2972-71	SUB PCB			UM
- 1	-		H01-3214-04	CARTON BOX	HH.			2 A	x13-2972-71	SUB PCB			HX
- 1	-		H01-3214-04 H01-3214-04	CARTON BOX	UE			2A	x13-2972-71	SUB PCB			XT
- 1	-		HU1-3214-04	CARION BOX	1	H	40	2A	x13-2972-71	SUB PCB	H331		1
	-		H01-3216-04 H01-3258-04	CARTON BOX	*E	-	D18		JNER (X05-190	LAMP	(LED)		_
-	-		H01-3258-04	CARTON BOX	±K					_			
	-		H10-1559-03 H20-0453-04	POLYSTYRENE FIXTURE	•		C 1 C 8	-7	C91-0083-05	CERAMIC		N K	
ı	-		WE0-0422-04	COVER	1 1			-12	C91-0083-05	CERAMIC		N	
- 1	_		H25-0078-04	BAG			C13		C91-0085-05	CERAMIC		N	1 1
ı						-14	C14		c25-1210-67	ELECTRO	10UF	16WV	
	26	2A,3B	J02-0111-05	FOOT X4	*	1.			-25 4740 57		100	50WV	
- 1	27	2B 3B	J19-0564-05	HOLDER			C15	,10	c25-1710-57	LL-ELEC		50WV	
- 1	28 29	1A		MOUNTING HARDWARE	1 1		C18		C46-1733-35	MYLAR	0.033UF	J	
- 1	30	2B	J42-0083-05	BUSHING	KP		C19	-21	C91-0083-05	CERAMIC		N	
- 1							CZZ		c25-1210-67	ELECTRO	10UF	16WV	1 1
1	30	2 B	J42-0083-05	BUSHING	UM	- 1	C23		c91-0085-05	CERAMIC	0.02205	N	1 1
	30 30	2B 2B	J42-0083-05 J42-0083-05	BUSHING	UE		C24		c24-1447-57	ELECTRO		25 W V	1 1
1	30	2B	J42-0083-05	BUSHING	HE		C25		C46-1733-35	MYLAR	0.033UF	J	
- 1	30	2 B	J42-0085-05	BUSHING	x l		C26	,27	c25-1710-57	LL-ELEC	1UF	50WV	1 1
ĺ					1 1	1	C28		c25-1210-67	ELECTRO	10UF	16WV	
- 1	31	3 A	-	RAIL			C29		C24-1222-67	ELECTRO	22HF	16WV	1 1
- 1	32	3 A	K21-0390-04	KNOB (TUNING)			C30		C91-0083-05	CERAMIC		N	1 1
- 1	33	2 A	K29-0379-04	KNOB (SELECTOR)			¢32		c24-1010-79	ELECTRO		10WV	1 1
	34	1 A	K29-0380-04	KNOB (POWER)			C33		c24-1022-71	ELECTRO		10WV	\perp
-			. 04 2454 05				C34		C91-0457-05	CERAMIC	0.022UF	N	
- 1	35	2 A	L01-2151-05	POWER TRANSFORMER POWER TRANSFORMER	*K		c35		c58-1710-15	CERAMIC	10005	J	1 1
- 1	35 35	2 A 2 A	L01-2152-05	POWER TRANSFORMER	*T		c36	-38	c91-0085-05	CERAMIC		N	1
1	35	2 A	L01-2154-05	POWER TRANSFORMER	*E		C39	-	c25-121C-77	LL-ELEC		16WV	1
-1	35	2 A	L01-2155-05	POWER TRANSFORMER	*U		C40		c25-1210-67	ELECTRO		16 W V	1
1	~-		.04 3455 05	DOLLED TRANSCORUES			C41		c46-1710-25	MYLAR	0.001UF	J	XE
ĺ	35 35	2 A	L01-2155-05	POWER TRANSFORMER POWER TRANSFORMER	MH		C42		c71-1715-06	CERAMIC	15PF	j	
1	35	2 A	101-2155-05	POWER TRANSFORMER	W		C43		C48-1736-15	POLYSTY		j	
.	3.5	•					C 4 4		C91-0085-05	CERAMIC	0.022UF	N	
	36	3 A	N14-0128-04	NUT X2	*		C45		c25-1210-77	LL-ELEC		16WV	
1			\$40-1022-05	Duen surren		-	C46		c24-1222-67	ELECTRO	22UF	16WV	
1	S1		540-1022-05	PUSH SWITCH PUSH SWITCH	HX	-	C47		C46-1782-25	MYLAR	0.0082UF	J	1 1
	51		\$40-1022-05	PUSH SWITCH	ÜÊ		C48		c26-1210-67	NP-ELEC		16hV	
- 1	\$1		S40-1024-05	PUSH SWITCH	KP		C49		C48-1710-25	POLYSTY	1000PF	J	1 1
1	\$1		S40-1025-05	PUSH SWITCH	TE		C50		c25-1710-57	LL-ELEC		50 W V	1 1
1	6.3		s31-2053-05	SLIDE SWITCH	UM		C 5 1	, > 2	c25-1433-57	LL-ELEC	3.301	25WV	1 1
	S 2		s31-2053-05	SLIDE SWITCH	H		c53		c25-1722-57	LL-ELEC	2.2UF	50 WV	
	SZ		s31-2053-05	SLIDE SWITCH	ÜE		C54		c25-1210-77	LL-ELEC	100UF	16 W	
١	\$2		s31-2053-05	SLIDE SWITCH	XE		C55		c24-1247-61	ELECTRO		1644	
	\$3		s31-2007-05	SLIDE SWITCH	KP		C57		c24-1733-57	ELECTRO		50hV	XE
			634-3007-05	CLIDE CUITCH	,		(34	,60	c46-171C-25	MYLAR	0.0010F	J	^
	\$3 \$3		S31-2007-05 S31-2007-05	SLIDE SWITCH	H		C61	,62	C46-1727-25	MYLAR	0.0027UF	J	UM
	53		s31-2007-05	SLIDE SWITCH	ÜE			,62	C48-1775-15	POLYSTY	750FF	3	K
					-			.64	C46-1715-25	MYLAR	0.0015UF		KU
	-		T90-0202-05	ANTENNA FM			C & 3	,64	C46-1715-25	MYLAR	0.0015UF	J	M
						_							

Ref. No.	Parts No.	Description	Re- marks
参照番号	部品番号	部品名/規格	備考
C65 ,66	c24-1722-57	ELECTRO 2.2UF 50%V	
C67 ,68	c91-0083-05	CERAMIC 0.01UF N	
C69	c25-1210-67	ELECTRO 10UF 16%V	
C70 -72	c91-0083-05	CERAMIC 0.01UF N	
C73	C25-1210-67	ELECTRO 10UF 16WV	
C74	C91-0083-05	CERAMIC 0.01UF N	
C75	C52-1710-26	CERAMIC 0.001UF K	
C76	C24-1447-57	ELECTRO 4.7UF 25WV	
C71	C25-1733-57	LL-ELEC 3.3UF 50WV	
C78 ,79	C55-1747-38	CERAMIC 0.047UF 2	
C80	C25-1747-47	LL-ELEC 0.47UF 50WV	
C81	C25-1210-67	LL-ELEC 10UF 16WV	
C83 ,84	C25-1710-57	LL-ELEC 1UF 50WV	
C85 -88	C91-0083-05	CERAMIC 0.01UF N	
C89	C25-1447-57	LL-ELEC 4.7UF 25WV	
C90	C25-141C-67	LL-ELEC 10UF 25WV	
C91	C25-1722-57	LL-ELEC 2.2UF 50WV	
C93	C25-6510-67	LL-ELEC 10UF 35WV	
C94	C24-1410-81	ELECTRO 1000UF 25WV	
C95	C24-1410-71	ELECTRO 100UF 25WV	
C96 C98 C99 C100,101 C102	C91-0083-05 C25-1210-67 C71-1703-01 C91-0083-05 C24-1447-57	CERAMIC 0.01UF N ELECTRO 10UF 16WV CERAMIC 3PF C CERAMIC 0.01UF N ELECTRO 4.7UF 25WV	
C103	c25-1210-77	LL-ELEC 100UF 16WV	
C104	c25-1722-47	LL-ELEC 0.22UF 50WV	
TC1 .2	c05-0303-05	TRIMMER CAPACITOR	
CF1 CF1 -4 CF1 -4 CF1 -4 CF2 ,3	L72-0111-05 L79-0129-05 L79-0129-05 L79-0136-05 L72-0126-05	CERAMIC FILTER FILTER KIT FILTER KIT FILTER KIT CERAMIC FILTER	KU MX E KU
CF2 ,3 CF2 ,3 CF4 CF5 L1	L72-0126-05 L72-0131-05 L72-0111-05 L72-0082-05 L19-0026-05	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER TRNSFORMER (BALUN)	MX E
L2 L3 L4 L5 L6	L40-1092-11 L39-0089-05 L30-0320-05 L32-0252-05 L79-0120-05	INDUCTOR COIL IFT OSCILLATING COIL FILTER (BPF)	
L7 L8 L9 ,10 L11 L12	L40-2292-11 L79-0109-05 L79-0113-05 L31-0458-05 L32-0225-05	INDUCTOR FILTER (LPF) FILTER (LPF) RF COIL OSCILLATING COIL	
L13 L14 L15 L16 ,17 L18 ,19	L30-0337-05 L30-0284-05 L40-1021-03 L40-2292-11 L40-1021-11	IFT IFT INDUCTOR INDUCTOR INDUCTOR	
R3	R43-1210-15	FL-PROOF RO100 J 2E	
R9	R43-1210-15	FL-PROOF RD100 J 2E	
R11	R43-1210-15	FL-PROOF RD100 J 2E	
R13	R43-1210-15	FL-PROOF RD100 J 2E	
R18 ,19	R43-1210-15	FL-PROOF RD100 J 2E	
R32	R43-1210-15	FL-PROOF RD100 J 2E	
R40	R40-8310-67	RC 10M M 2H	
R46	R43-1210-15	FL-PROOF RD100 J 2E	
R69	R43-1210-15	FL-PROOF RD100 J 2E	

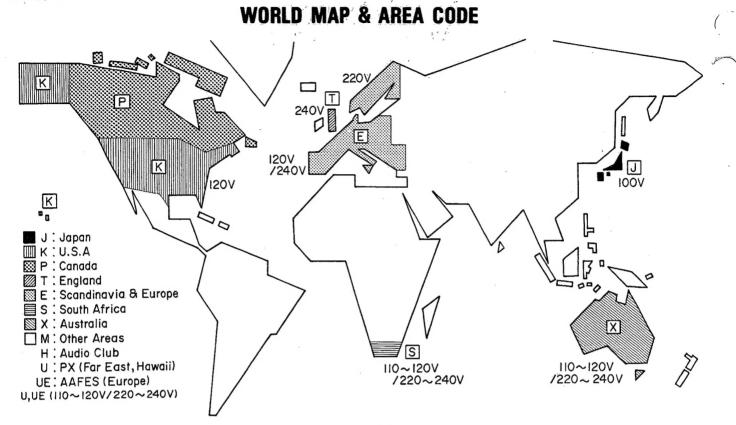
Ref. No.	Parts No. Description	n	Re-
参照番号	部品番号 部品名/	規格	marks 備考
R74 ,75 R81 -83 R175,176 R180 R181	R40-8310-67 RC 10M R43-1210-15 FL-PROOF RD100 R40-8347-05 RC 47 R40-8318-06 RC 18 R47-5422-15 FL-PROOF RS220	M 2H J 2E J 2H J 2H J 3A	
VR1 VR2 ,3 VP4 VR5	R12-0302-05 TRIMMING POT,50 R12-2302-05 TRIMMING POT,58 R12-3301-05 TRIMMING POT,20 R12-2302-05 TRIMMING POT,58	00 C K	
s1 -5	\$42-5021-05 PUSH SWITCH (5k	EY)	
D1 -7 D11 -13 D14 -15 D16 D23	V11-0271-05 V11-0271-05 V11-0051-05 V11-4161-96 V11-0273-05 V11-0273-05		
D24 ,25 D26 D27 -29 D30 D31 ,32	V11-0295-05 V11-0273-05 V11-0271-05 V11-4101-20 V11-0271-05 V11-0271-05		
D33 IC1 IC2 IC3 IC4	V11-0051-05 V30-0513-10 V30-0510-10 V30-0510-10 V30-0353-10 V30-0509-10 V30-0509-10		
105 106 107 Q1 Q2	V30-0359-10 V30-0506-10 V30-0506-10 AN6877 V30-0196-05 HA1197 V03-1675-00 V03-0504-05 ZSC828A(Q)		
Q3 Q4 ,5 Q6 ,7 Q8 -12 Q13 ,14	V09-0127-40 V03-0504-05 V09-0127-40 V03-0504-05 V03-0504-05 V01-0733-90 25K105(H,J) 25K284(Q) 25K284(Q) 25K284(Q) 25K284(Q) 25K284(Q)		
Q15 -20 Q21 Q22 Q23 Q24 ,25	V03-0504-05		
Q26 Q27 ,28 Q29	V04-0330-20 V03-0504-05 V03-0293-05 W02-0054-05 FM FRONTEND		
103 1A SU	B (X13-297 * - **)		
104 2B	B38-0023-05 DISPLAY ASSY		*
C1 C2 C3 ,4 C5 C6	C24-1410-71 C25-1210-77 C25-1210-67 C25-1722-57 C91-0083-05	25 H V 16 W V 16 W V 50 W V N	
C7 -11 C12 C13 C14 C15 ,16	C91-0181-05 C71-1733-06 C91-0085-05 C71-1747-05 C91-0083-05 C91-0083-05 CERAMIC 0.022UF CERAMIC 47PF CERAMIC 0.01UF	K	
C17 ,18 C19 C20 C21	C91-0085-05 CERAMIC 0.022UF C63-1727-05 CERAMIC 27PF C63-1722-05 CERAMIC 22PF C25-121C-67 LL-ELEC 10UF	1 J J 16wV	



PARTS LIST

Ref. No.	Parts No.	Description	Re- mark
参照番号	部品番号	部品名/規格	備考
C22 E23 C24 C25	C91-0181-05 C24-1010-79 C91-0181-05 C91-0085-05	CERAMIC 0.0015UF N ELECTRO 100UF 10WV CERAMIC 0.0015UF N CERAMIC 0.022UF N	
L1 -4	L40-2291-11 L77-0574-05	INDUCTOR IMH Crystal resonator	
R53 ,54 R55 VR1 ,2	R92-0173-05 R47-5533-05 R12-3302-05	RC 2.2M M 2H FL-PROOF RS33 J 3D TRIMMING POT,10K	
D1 D2 D3 D4	v11-4101-20 v11-0271-05 v11-0051-05 v11-4101-20 v30-0409-10	XZ-060 1s2076 1n60 XZ-060 An6821	
1C2 1C3 91 92 -4	V30-1005-26 V30-0517-10 V04-0330-00 V03-0504-05 V03-2274-20	SN74LS90N LC7257 2S0330 2SC828A(Q) 2SC2274K(E,F)	*
Q6 -9	v03-0504-05	ZSC828A(Q)	
FM	FRONT END	(W02-0054-05)	
D1 IC1 Q1 Q2	V11-3100-20 V30-0445-10 V09-0150-05 V09-0124-20	152236 \$C114 35K85 25K61	





Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

There is no plan for producing units of S type.

A product of

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